



Filename: CBF24LY30WDMV50K

Manufacturer: Saylite

Luminaire: Recessed mounted, formed steel housing, formed white enamel steel reflectors, translucent white plastic center enclosure.

Luminaire Cat: CBF24LY30WDMV50K

Lamp: 192 white LEDs, four Seoul Semiconductor SMJD-3612048C-XXN1_R1.1 boards with 48 LEDs each

Ballast Desc: One ERP PKB30W-1050-55-TD LED driver set at 850mA

Lamp Output: Total luminaire Lumens: 4556.5

Max Candela: 1,495.9 at Horizontal: 90°, Vertical: 0.5°

Input Wattage: 30

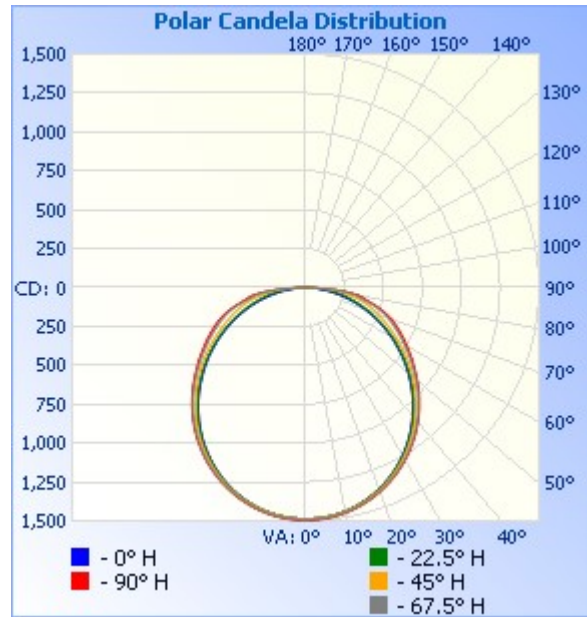
Luminous Opening: Rectangle (L: 47", W: 22.75")

Test: LLIA001463-021A-Extrapolated

Test Lab: LightLab International Allentown, LLC

Photometry : Type C

Nema Type: 7 X 7



Roadway Summary

Cutoff Classification:	CUTOFF
Distribution:	Type VS
Max Cd, 90 Deg Vert:	0.7
Max Cd, 80 to <90 Deg:	373.7
	Lumens % Lamp
Downward Street Side:	2,278.3 50%
Downward House Side:	2,278.3 50%
Downward Total:	4,556.6 100%
Upward Street Side:	0 0%
Upward House Side:	0 0%
Upward Total:	0 0%
Total Lumens:	4,556.6 100%

Flood Summary

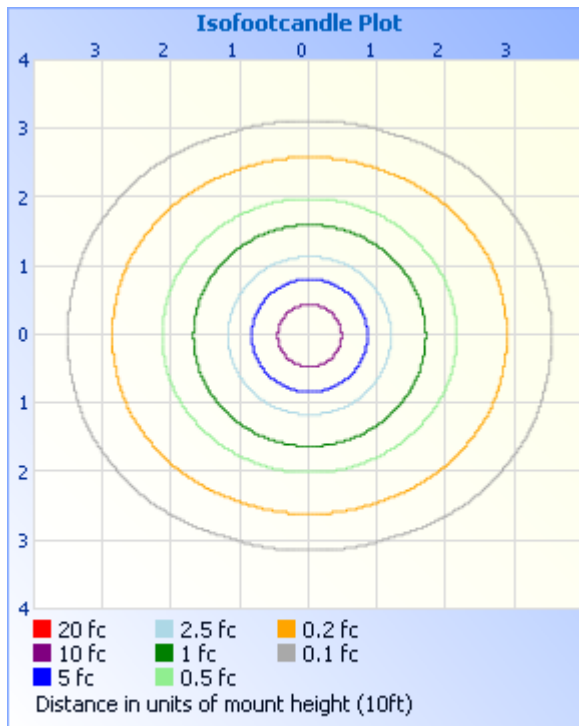
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	99.2%	4,519.0	173.4	163.4
Beam (50%):	70.6%	3,215.7	120.6	110.4
Total:	100%	4,555.2		

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1,156.7	25.4%
0-40	1,897.1	41.6%
0-60	3,382.4	74.2%
60-90	1,174.1	25.8%
70-100	588.3	12.9%
90-120	0.0	0%
0-90	4,556.5	100%
90-180	0.0	0%
0-180	4,556.5	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	140.8	3.1%	90-100	0.0	0%
10-20	403.6	8.9%	100-110	0	0%
20-30	612.3	13.4%	110-120	0	0%
30-40	740.4	16.2%	120-130	0	0%
40-50	772.9	17.0%	130-140	0	0%
50-60	712.5	15.6%	140-150	0	0%
60-70	585.8	12.9%	150-160	0	0%
70-80	413.5	9.1%	160-170	0	0%
80-90	174.8	3.8%	170-180	0	0%



Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7R	515 fc	4.9 ft	6.0 ft
3.3R	137 fc	9.5 ft	11.6 ft
5.0R	59.5 fc	14.4 ft	17.5 ft
6.7R	33.2 fc	19.3 ft	23.5 ft
8.3R	21.6 fc	23.9 ft	29.1 ft
10.0R	14.9 fc	28.8 ft	35.0 ft

■ Vert. Spread: 110.4°
■ Horiz. Spread: 120.6°

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10				0			
RW %:	70	50	30	0	70	50	30	0	50	30	20	0	50	30	20	0	50	30	20	0	0	0	0	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.11	1.06	1.06	1.06	1.06	1.02	1.02	1.02	1.02	1.00	1.00	1.00	1.00
1	1.08	1.02	.97	.93	1.05	1.00	.96	.82	.96	.92	.89	.89	.92	.89	.86	.86	.88	.86	.83	.83	.81	.81	.81	.81
2	.97	.88	.81	.75	.95	.86	.80	.68	.83	.77	.72	.72	.79	.75	.70	.70	.76	.72	.69	.69	.67	.67	.67	.67
3	.88	.77	.69	.62	.86	.76	.68	.57	.73	.66	.60	.60	.70	.64	.59	.59	.67	.62	.58	.58	.56	.56	.56	.56
4	.81	.68	.59	.52	.78	.67	.58	.49	.64	.57	.51	.51	.62	.55	.50	.50	.60	.54	.49	.49	.47	.47	.47	.47
5	.74	.61	.51	.44	.72	.60	.51	.42	.57	.50	.44	.44	.55	.49	.43	.43	.54	.48	.43	.43	.41	.41	.41	.41
6	.68	.55	.45	.39	.66	.54	.45	.37	.52	.44	.38	.38	.50	.43	.38	.38	.48	.42	.37	.37	.35	.35	.35	.35
7	.63	.49	.40	.34	.62	.49	.40	.33	.47	.39	.34	.34	.46	.39	.33	.33	.44	.38	.33	.33	.31	.31	.31	.31
8	.59	.45	.36	.30	.57	.44	.36	.30	.43	.35	.30	.30	.42	.35	.30	.30	.41	.34	.30	.30	.28	.28	.28	.28
9	.55	.41	.33	.27	.54	.41	.33	.27	.40	.32	.27	.27	.39	.32	.27	.27	.37	.31	.27	.27	.25	.25	.25	.25
10	.52	.38	.30	.25	.50	.38	.30	.24	.37	.29	.25	.25	.36	.29	.24	.24	.35	.29	.24	.24	.23	.23	.23	.23

Candela Table - Type C

	0	22.5	45	67.5	90
0	1489	1489	1489	1489	1489
0.5	1486	1485	1486	1491	1496
1	1485	1485	1486	1491	1495
1.5	1485	1485	1485	1490	1495
2	1485	1485	1485	1490	1495
2.5	1484	1484	1485	1489	1494
3	1483	1483	1484	1489	1493
3.5	1483	1482	1483	1487	1493
4	1481	1481	1482	1487	1491
4.5	1480	1480	1481	1486	1491
5	1479	1479	1479	1484	1489

5.5	1477	1477	1479	1483	1488
6	1476	1476	1477	1481	1487
6.5	1474	1474	1476	1480	1485
7	1473	1473	1474	1478	1483
7.5	1470	1470	1472	1477	1481
8	1469	1468	1470	1475	1479
8.5	1466	1466	1468	1473	1477
9	1464	1464	1466	1471	1475
9.5	1462	1462	1463	1468	1473
10	1458	1458	1460	1466	1470
10.5	1456	1456	1458	1464	1468
11	1453	1453	1455	1461	1466
11.5	1450	1450	1452	1458	1462
12	1447	1447	1449	1455	1460
12.5	1443	1443	1446	1452	1456
13	1440	1440	1443	1449	1453
13.5	1436	1437	1439	1446	1450
14	1432	1433	1436	1442	1447
14.5	1429	1429	1432	1439	1443
15	1424	1425	1429	1435	1439
15.5	1420	1421	1424	1431	1435
16	1416	1417	1421	1427	1432
16.5	1412	1412	1416	1423	1427
17	1407	1408	1412	1419	1424
17.5	1402	1403	1408	1416	1419
18	1398	1398	1403	1411	1416
18.5	1392	1394	1398	1407	1411
19	1387	1389	1394	1402	1406
19.5	1383	1384	1389	1398	1402
20	1377	1378	1384	1392	1397
20.5	1371	1373	1379	1388	1392
21	1365	1367	1373	1383	1387
21.5	1360	1362	1367	1377	1382
22	1354	1356	1362	1372	1377
22.5	1348	1350	1357	1367	1371
23	1342	1344	1351	1361	1366
23.5	1336	1338	1345	1356	1360
24	1329	1332	1339	1350	1355
24.5	1323	1325	1333	1344	1349
25	1317	1319	1327	1339	1343
25.5	1310	1313	1321	1333	1337
26	1304	1306	1314	1327	1331
26.5	1296	1299	1308	1321	1325
27	1290	1292	1301	1314	1319
27.5	1282	1285	1295	1308	1313
28	1275	1278	1288	1302	1306
28.5	1268	1271	1281	1295	1300
29	1260	1263	1274	1288	1293
29.5	1253	1256	1267	1282	1286

30	1245	1248	1259	1275	1279
30.5	1238	1241	1252	1267	1273
31	1229	1233	1245	1260	1265
31.5	1221	1225	1237	1253	1259
32	1214	1217	1230	1246	1251
32.5	1205	1209	1222	1238	1244
33	1197	1201	1215	1231	1236
33.5	1188	1193	1206	1223	1228
34	1180	1184	1198	1216	1222
34.5	1171	1176	1190	1208	1213
35	1162	1167	1182	1200	1206
35.5	1154	1159	1174	1192	1198
36	1145	1150	1165	1184	1190
36.5	1136	1141	1157	1176	1182
37	1127	1132	1149	1168	1174
37.5	1118	1123	1140	1160	1166
38	1108	1114	1131	1151	1157
38.5	1099	1105	1122	1143	1149
39	1089	1095	1113	1134	1140
39.5	1080	1086	1104	1126	1132
40	1070	1077	1095	1116	1123
40.5	1061	1067	1087	1108	1114
41	1051	1058	1077	1099	1106
41.5	1041	1048	1068	1090	1097
42	1031	1039	1059	1081	1088
42.5	1021	1028	1049	1072	1079
43	1011	1019	1040	1063	1070
43.5	1001	1008	1030	1054	1061
44	991	998	1021	1045	1052
44.5	980	988	1011	1035	1043
45	970	978	1001	1026	1033
45.5	960	968	992	1016	1024
46	949	958	981	1007	1014
46.5	938	947	972	997	1005
47	928	937	961	987	996
47.5	917	927	952	978	986
48	906	916	941	968	977
48.5	896	905	931	958	967
49	884	895	921	948	957
49.5	874	884	911	938	947
50	863	873	900	929	938
50.5	852	862	890	919	928
51	841	851	880	909	918
51.5	830	840	869	898	908
52	819	830	859	888	899
52.5	808	818	848	878	889
53	797	807	838	869	880
53.5	786	796	827	858	870
54	774	785	817	849	861

54.5	763	774	806	839	852
55	751	763	795	829	843
55.5	741	752	784	819	834
56	729	740	774	810	824
56.5	718	730	763	800	815
57	706	718	752	791	806
57.5	695	706	741	782	797
58	683	695	731	772	788
58.5	672	684	720	762	779
59	660	673	710	753	770
59.5	648	661	699	744	761
60	637	650	688	735	753
60.5	625	638	677	726	744
61	614	627	667	716	735
61.5	602	616	656	708	727
62	590	604	646	699	718
62.5	579	592	637	690	710
63	567	581	627	681	701
63.5	556	570	617	672	693
64	544	559	607	664	684
64.5	533	548	597	655	676
65	521	536	587	646	668
65.5	510	525	577	638	660
66	498	513	568	629	652
66.5	486	502	558	621	643
67	475	491	549	612	635
67.5	463	480	540	604	627
68	452	469	530	596	619
68.5	440	457	521	587	610
69	429	446	512	579	602
69.5	417	435	503	570	592
70	406	424	494	561	584
70.5	395	413	485	552	574
71	384	403	476	544	565
71.5	372	391	467	534	555
72	360	381	459	525	545
72.5	349	370	450	515	534
73	338	360	441	505	524
73.5	327	349	432	495	513
74	316	339	423	484	501
74.5	304	329	415	474	490
75	293	319	405	462	478
75.5	282	309	396	451	467
76	270	299	386	439	455
76.5	260	289	376	428	443
77	248	280	366	416	431
77.5	237	271	356	403	419
78	227	261	345	391	409
78.5	215	252	334	380	398

79	205	243	323	369	389
79.5	194	233	311	359	381
80	183	224	299	351	374
80.5	173	215	287	342	366
81	162	206	275	335	358
81.5	152	197	264	327	349
82	141	188	254	318	338
82.5	131	179	245	308	322
83	121	169	237	293	306
83.5	110	159	228	277	289
84	100	148	219	260	271
84.5	90	137	206	243	252
85	80	126	191	223	232
85.5	70	115	175	204	212
86	61	106	159	183	189
86.5	51	96	140	160	165
87	42	86	121	136	140
87.5	32	72	99	109	111
88	23	57	76	82	83
88.5	14	41	51	53	53
89	7	23	26	24	22
89.5	2	7	5	3	3
90	0	0	0	0	1
90.5	0	0	0	0	0
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92.5	0	0	0	0	0
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153.5	0	0	0	0	0
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164.5	0	0	0	0	0
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165.5	0	0	0	0	0
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166.5	0	0	0	0	0
167	0	0	0	0	0
167.5	0	0	0	0	0
168	0	0	0	0	0
168.5	0	0	0	0	0
169	0	0	0	0	0
169.5	0	0	0	0	0
170	0	0	0	0	0
170.5	0	0	0	0	0
171	0	0	0	0	0
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172	0	0	0	0	0
172.5	0	0	0	0	0
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173.5	0	0	0	0	0
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174.5	0	0	0	0	0
175	0	0	0	0	0
175.5	0	0	0	0	0
176	0	0	0	0	0
176.5	0	0	0	0	0

177	0	0	0	0	0
177.5	0	0	0	0	0
178	0	0	0	0	0
178.5	0	0	0	0	0
179	0	0	0	0	0
179.5	0	0	0	0	0
180	0	0	0	0	0

Luminaire Report Summary

IESNA:LM-63-2002
 [TEST] LLIA001463-021A-Extrapolated
 [TESTLAB] LightLab International Allentown, LLC
 [ISSUEDATE] 6/4/2021
 [MANUFAC] Saylite
 [LUMCAT] CBF24LY30WDMV50K
 [LUMINAIRE] Recessed mounted, formed steel housing, formed white enamel
 [MORE] steel reflectors, translucent white plastic center enclosure.
 [LAMP] 192 white LEDs, four Seoul Semiconductor SMJD-3612048C-XXN1_R1.1
 [MORE] boards with 48 LEDs each
 [BALLAST] One ERP PKB30W-1050-55-TD LED driver set at 850mA
 [OTHER] 120.0Vac, 60.00Hz, 0.2500A, 30W
 [OTHER] This test was extrapolated.
 [MORE] Lamp lumens value was set to -1

FILE: CREATED USING ABSOLUTE PHOTOMETRY
 FILE: CANDELA MULTIPLIER: 0.659
 FILE: VERTICAL ANGLES: 361, HORIZONTAL ANGLES: 5
 FILE: COORDINATE SYSTEM: TYPE C
 FILE: UNIT OF MEASURE: STANDARD
 FILE: BALLAST FACTOR: 1

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 Reported data calculated from manufacturer's data file, based on IES recommended methods.